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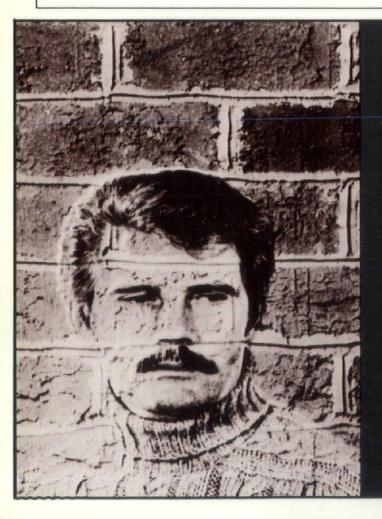
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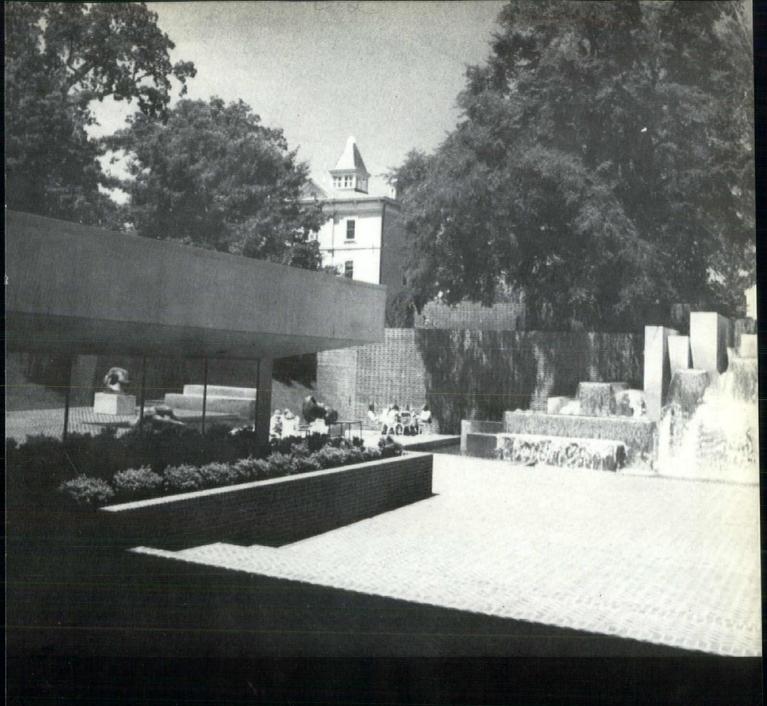
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TO TELL THE VIRGINIA STORY



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ON OUR COVER is a view of the North Courtyard at the Virginia Museum of Fine Arts. The North Wing Addition to the Museum, designed by Hardwicke Associates, Inc. of Richmond, is featured on page 34 of this issue. (Photo by Hardwicke Associates, Inc.)

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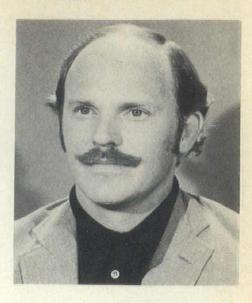
NERGY: ALTERNATE SOURCES

In RECENT editorials we have discussed energy use and conservation in the lilt environment, adaptive reuse of existing structures where practical, cial/political/economic impacts of renovation, restoration and preservation and by all of these considerations affect the well being of design professionals and the liblic they serve. We believe all of these areas of discussion are of great import and the due careful consideration on the part of designers, users and planners alike, here is another facet in our continuing concern over the steadily decreasing applies of oil and gas as energy sources for our homes, schools, offices, etc., and at area is apparently growing more visible through research and experimentation alternate sources.

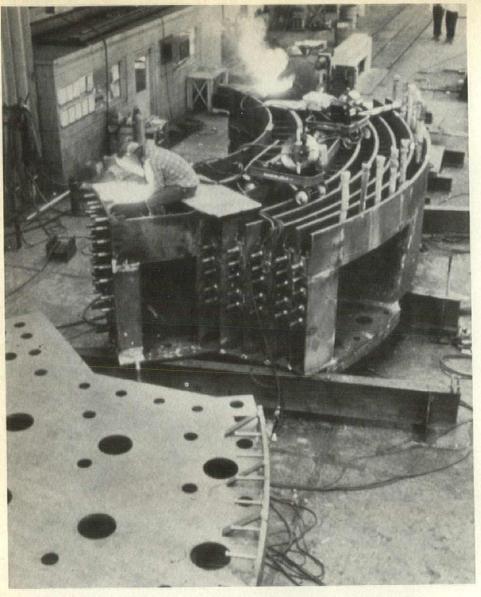
What alternate sources of energy are available to replace oil and gas to heat and oil buildings? A majority of people outside of the "building team members," chitects, engineers, contractors and owners, will automatically note solar energy it will be hard pressed to come up with others. Unfortunately, many members of e building team can go no further than solar energy themselves and, if they know other sources, are reluctant to try one of these alternate systems. These dividuals can take heart in the knowledge that a significant number of architects, igineers, contractors and owners have used one or more alternate energy systems a building completed within the last year, and found them successful. Designers pecially should take note because surveys have shown that the contractors and wners may be more willing to experiment than we are.

Some energy alternates such as nuclear fission, nuclear fusion, ocean wave enerated electricity and ocean thermal electricity are not practical for buildings, se of wind, geothermal heat, underground water, passive and active solar stems, coal, waste products and reclaimed heat are practical and are providing ectricity, heating, cooling and steam power for commercial, residential, dustrial and institutional structures. A recent survey shows that 42% of all spondents had used a heat recovery system, 21% had used solar energy and lesser ercentages had gained practical experience with wind, coal or geothermal energy surces. Largely, the survey found these systems to be working well and, despite inor reservations, half of those using a solar energy system said it met design spectations with 10% indicating better than expected results. Although up-front of solar systems and long pay-back were cited as major reservations, the rerage pay-back period was only slightly over seven years.

An important part of energy conservation through alternate source usage in dition to proper design and installation has been life-cycle costing. Investments reduce operating costs of a building over its expected life are being, and should more so, aggressively promoted. In eight of ten buildings under design or instruction that were reported on in the survey, some feature to substantially



By Frederick E. Baukhages, IV, AIA



NUCLEAR KNOW-HOW.... is one of our talents.

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reduce energy consumption had bee incorporated. In example of alterna energy usage, we submit the followin a restaurant with a windmill generating electrical power - eight kilowatts. Th architectural feature of the building provides approximately twenty-five percent of needed power; a passive solar heated terminal utilizing shutter earth berms, thick walls and insulation to capture heat by day to be used night; a school built undergrour utilizing thermal mass of soil and wal and an active solar system; educational facility cooled with we water; an educational facility heate with an underground source of h water; an industrial complex using co to provide steam for heating; manufacturing facility which uses woo waste to fire boilers and a restaura using heat recovery systems to provide building heat and domestic hot water.

These trends should indicate to us a designers and users that deeper ar more careful consideration of alternatenergy sources in buildings should be primary concern as we approach adaptive reuse or new building project. It would especially behoove us Virginia to be aware, as energy-savir features and life-cycle costing a becoming more and more important the long range plans of our clients.

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VIRGINIA SOCIETY AMERICAN INSTITUTE OF ARCHITECTS

RUARY 1978

The Virginia Society of the rican Institute of Architects has y important and active committees. he recent past, one of the most vital productive has been the ernment Affairs Committee.

lecting an Architect is a document uced by our Government Affairs mittee that is available to Virginia ety members at the headquarters es in Richmond.

e following thoughts on the tion of Architects for Public struction Projects are reprinted this pamphlet:

Architects must practice their ession in the public interest. This ilation is included in virtually every law governing the registration and ising of architects.

That mandate is never more ortant than when the architect is lved in a public construction ect. The commitment to serve the ic interest begins with the manner hich the project architect is selected continues through the completion actual functioning of the structure.

"In several states, allegations linking improper political contributions and kickbacks to the receipt of public design contracts by engineers and architects have caused some legislators and others to consider restructuring the selection process for professional design services.

"It is vital that the selection procedure be free from political influence. It should be an open process with the sole objective of retaining the highest qualified architect on the basis of demonstrated experience, competence, and motivation at fair and reasonable negotiated compensation for

the professional services.

Care should be taken in the selection procedure not to overlook the young professional or small firm that may not have many buildings to his credit or a vast amount of experience. He may be well qualified in all other respects, and consideration should be given to his motivation and ability to offer a fresh and imaginative approach to a particular problem. The final selection of the architect should be made on the basis of good standing in his profession and in the community, on his creative and innovative ability, his technical competence, his business capacity, his integrity, his experience, and on his

ability to cooperate with all those involved in the project."

Other facets of the selection process discussed in greater detail in the pamphlet are: (1) a review of competitive fee bidding; (2) a discussion of selecting architects in the public interest; (3) an outline of a government process for obtaining architectural services; and (4) the draft of a bill or resolution establishing a selection system for local jurisdictions.

The pamphlet is only one of many examples of the work done by our Virginia Society committees. Your support of the society and particularly the committees whose sphere of influence interests you, is one of the ways we can strengthen the status of the Architectural Profession in Virginia.

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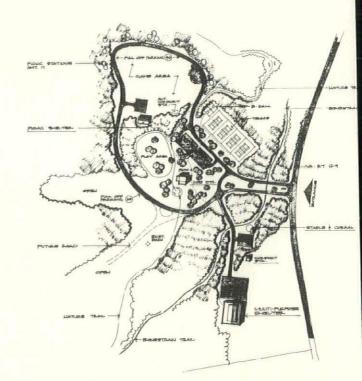
FRANKLIN COUNTY RECREATION PARK

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THE OPENING this fall of the Franklin County tecreation Park concluded the first phase of development for central recreation complex which will eventually grow to tilize approximately 425 acres of County owned property ocated between U.S. Highway 220 and State Highway 619.

The new park site occupies approximately 150 acres and is our miles south of the Town of Rocky Mount with the main ntrance off Route 619. The terrain is rolling, partially leared, with large areas of light and dense woods.

Assisting the Franklin County Parks and Recreation Department in the development of this project were the sureau of Outdoor Recreation, U. S. Department of Interior nd the Commonwealth's Commission of Outdoor Recreation.

The park contains numerous opportunities for recreation nd educational experiences. The focal point of the total omplex is an Information Center. This year-round facility ontains approximately 1,000 S.F. of main level space. A full assement is provided for equipment storage. The primary unction of the main level is to house the offices of the ranklin County Department of Parks and Recreation. The obby and information areas serve to inform visitors of the nany activities which they may enjoy and also provides an adoor interpretive structure from which students and aturalists can begin their outdoor learning experience. Imple covered decks are provided to give shelter and elaxation to park visitors.

The information center is viewed immediately as one turns ff the highway and proceeds along the divided access road. Ince in front of the center the road divides and becomes a pop for safe and efficient intra-circulation, connecting the arious activities within the park. The main parking lot is orth of and adjacent to the center. Its convenient location llows many activities in close proximity to be served.

As one passes by the center, the tennis courts appear to the orth. Four courts are provided complete with fencing and ghts for after-dark play.

At the far end of the vehicular loop there exists an open rea around which has been placed the picnic activities. hese are provided in small groupings of tables and beneath







a large shelter constructed of wood deck, beam and column components.

Around the picnic shelter and towards the Information Center can be found the "really fun" area, the playground. Children will enjoy the many pieces of natural wood play devices. There are slides and swings to name a few. For the older children, a fully equipped basketball court is provided. Horseshoe and shuffleboard enthusiasts likewise will enjoy their accommodations.

Two strategically located comfort stations are provided.

Surrounding the physical improvements are several miles of trails to enhance the interpretive experience. Trail markers serve to denote interesting ecological and environmental features which are characteristic to the locale. An equestrian trail is soon to become a reality.

Materials used for improvements are predominantly wood and stone. Much effort went into preserving the natural character of the site during both design and construction.

The project was divided into three separate contracts or "Bid Packages."

The contractor for Bid Package No. 1 was J. R. Cundiff, Jr. of Collinsville. Their work consisted of clearing, grubbing, rough grading, temporary roadway surfacing, excavating, sodding, seeding, etc.

The contractor for Bid Package No. 2 was Day Construction Co., Inc. of Salem. Their work consisted outilities distribution, sanitary systems, roads and paving, sit lighting, structures and miscellaneous construction.

The contractor for Bid Package No. 3 was Gallimore, In Their work consisted of fixed equipment, trails and path impact areas, tables and benches, fences and gates, graphic and landscaping.

Subcontractors & Suppliers

From Salem were: L. H. Sawyer Paving Co., Inc., pavin contractor; Leonard Smith Sheet Metal & Roofing, Inc roofing & sheet metal; Marion Glass & Aluminum Co glazing contractor; Acoustical Services, Inc., gypsum boar contractor & resilient tile; and John N. Yauger & Co skylights.

Roanoke firms were: Roanoke Wood Preservers, Inc carpentry; South Roanoke Lumber Co., millwork & woodoors; Pella Window & Door, windows; Skyline Paint & Hardware, Inc., hardware supplier; L. R. Brown Sr., paintin contractor; Dickerson-Trent, Inc., plumbing/heating ventilating/air conditioning contractor; and M & M Electrical Contracting, Inc., electrical equipment supplier.

Others were: Koppers Co., Inc., Salisbury, Maryland structural wood & pre-manufactured park shelter; and The Woodshed, Lynchburg, wood flooring.

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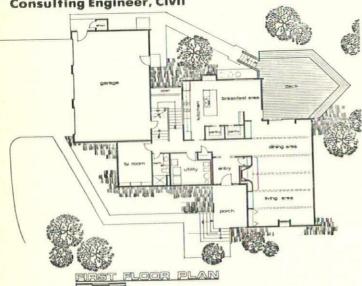


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VIRGINIA BEACH

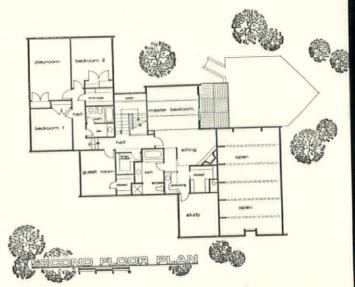
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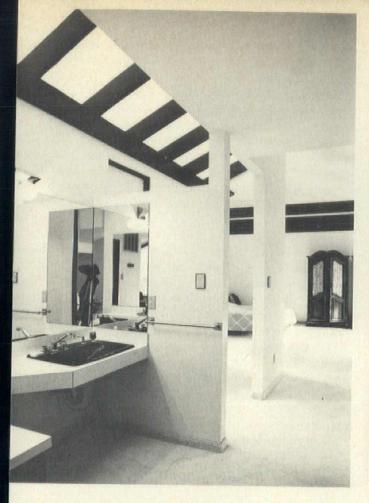
THE DESIGN COLLABORATIVE/MILLER & FOX Consulting Engineer, Civil



Photography by

C. M. ASSOCIATES, INC Construction Manage







THIS RESIDENCE is located on a wooded one-acre site Virginia Beach and fronts on a tidal body of water. To take Ivantage of the view, the house was placed near the edge of it water. Sitting inside the house, one almost has the feeling being on a boat. Most of the trees were preserved and the tis left natural. Even though there are homes on both sides, the still has the feeling of complete privacy and the amediate closeness of nature.

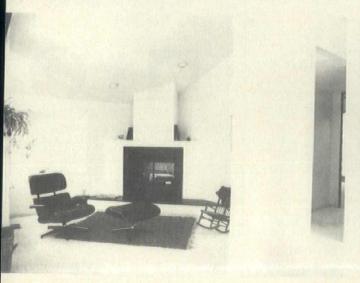
The north side of the house which also faces the street was ft almost blank.

Almost all the rooms have a view of the water or at least a good view of the woods.

The neighboring houses are much closer to the street; consequently, all the windows could be left without drapery.

"Light Tower"

The stair serves as a "light tower," receiving natural light through conventional windows and clerestory windows. This light is then reflected into the different parts of the house. Most rooms get light from at least two different directions, creating spacious, bright interiors. All the windows and





PAGE FIFTEEN

sliding glass doors are aluminum clad on the outside and use double glazing.

Artificial Lighting

Unusual amounts of fluorescent lights are used. Most of the lighting is recessed or indirect lighting. Under the living room beams there are tracks installed for movable lights designed for the illumination of art objects. Low voltage control is provided for outside lights and lights in the halls and stairway, controlled from a master switch. Illuminated switches indicate which light is on and the homeowner can turn all these lights off from one point before retiring for the night.

Mechanical System

Three air-to-air electric heat pumps with humidifiers heat and cool the house.

Energy Conservation

The exterior walls are constructed with 2 x 6 wood studs to accommodate 6 inch batt insulation. All the floor and roof joists are "Trus-joists." These are I-beams constructed of glued and laminated plywood. This made longer than usual spans possible and, in some instances, heating ducts could penetrate these beams. The 12 inch deep joists also made it possible to use 9 inch batt insulation between the rafters.

C.M. Associates Inc. of Virginia Beach acted as construction manager.

Subcontractors & Suppliers (Virginia Beach firms unless noted)

T. E. Gildersleeve Pump & Well Drilling Specialist, well C. S. Hines, Inc., septic tank; Stanley Construction, Suffolk clearing; Gunter Bros. Concrete Co., Inc., concret contractor; Wade Masonry, masonry contractor; Chesapeak Block, masonry supplier; Gravely Construction Co., Inc. carpentry; Trus-Joist Corp., c/o Stephen Jones, Richmond structural wood; Addington-Beaman Lumber Co., Inc. Norfolk, millwork; Kitchen Towne Div. of Town Distributors, Inc., Norfolk, kitchen cabinets; Dalu Hom Services, Norfolk, built-in cabinets; McDaniel's Roofin Corp., Portsmouth, built-up roof & other roofing; Colonia Insulation, Inc., Norfolk, roof/wall/foundation insulation and, Binswanger Glass Co., Norfolk, glass & mirrors.

Also, Greenwich Supply Corp., metal doors & frames Virginia Door, Inc., Chesapeake, garage doors; Solar On Ltd., windows (Pella Windows); Walker & Laberge Co., Inc. Norfolk, garden window; Seaboard Paint & Supply hardware supplier; Johnson's Drywall, Ltd., gypsum board contractor; Jayen Tile Corp., Norfolk, ceramic tile; Thalic Carpet & Drapery Shop, resilient tile & carpet; J & Painting, Portsmouth, painting contractor; Schell Suppl Corp., plumbing fixture supplier; Brunk Mechanical Corp. Newport News, plumbing contractor; and Smith & Keen Electric Service, Inc., Norfolk, heating/ventilating/ai conditioning/electrical contractor, and lighting fixtures & electrical equipment supplier.

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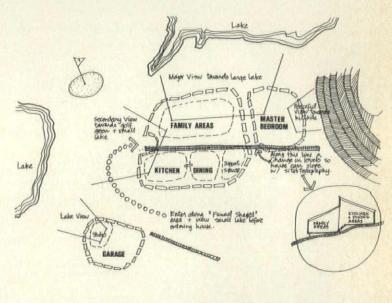
ILLIAM J. DAVIS, Consulting Engineer Structural
AMES B. FERGUSON GENERAL CONTRACTING CORP., General Contractor

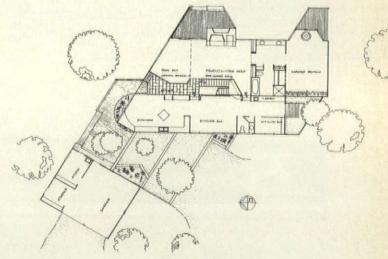
SITED ON A wooded hillside relooking two lakes, this 2800 square of residence was designed around redominant views, consideration for pography, and an emphasis on trying degrees of community and rivacy.

The two lakes, one substantially rger than the other, demand tention. With this in mind, the entry quence was designed so that one ould have to walk toward the lakes efore turning 180° and entering the ouse. Also, all active areas of the ouse, where an "outward extension" ould be desirable, were located to pture the lake views. Major exposure provided for the heart of the house, a ombined family, living, and pool room ea, which overlooks the larger lake. ne side of the pool room and the reakfast area of the kitchen focus on e smaller lake as well as a golf green ljacent to this lake. This end of the ouse is also angled at 30° to provide rect orientation toward the view.

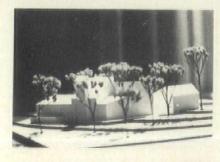
In order to tie the house to the land nd create a natural fit, a change in vels was provided. This break is effected on the exterior through odulation of roof heights, and on the terior it sets off the semi-private areas om the totally open areas.

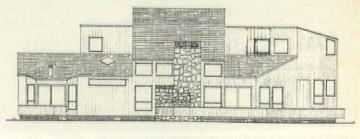
(Please turn the page)











EAST

The need for distinction between private, semi-private, and community spaces also played a major role in shaping the design. All sleeping areas were located at the extremes or tension points, of the house in order to provide maximum separation from other areas. The master bedroom suite was located toward the most peaceful side of the property, where it could capture the tranquility of this beautiful site, and the children's bedrooms are upstairs, at either end of the second floor.

With the roof breaks that were created to conform to the site, the children's bedrooms overlook the roofs below and provide a view of the larger lake. Also, one of the bedrooms is at the end toward the smaller lake, and a lookout, created by radially fanning steps up to a niche in the wall, provides a view towards this smaller lake. This lookout, as well as a skylight-window arrangement at the other bedroom, was also provided to personalize the children's sleeping areas.





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The semi-private spaces consist of th kitchen and dining areas which ar partially screened from other areas by wall with a series of solid and voi spaces, and an open riser stairway. Th heart of the house includes the mos open family/living areas which wer located adjacent to the pool room. B keeping these open spaces on the sam floor level, a combined use can b achieved for entertaining an modulated ceiling heights are used t provide definition of space. The ceilin moves across the pool room at 8'-0" an then changes to a sloped ceiling sectio above the family/living area. Thi sloped section climaxes at a clerestory and also allows for a second floo balcony to overlook the areas below.

Vertical cedar board siding has bee chosen for the exterior to help blend th house with its natural surroundings and a brown brick base will enable th house to softly tie into the land.

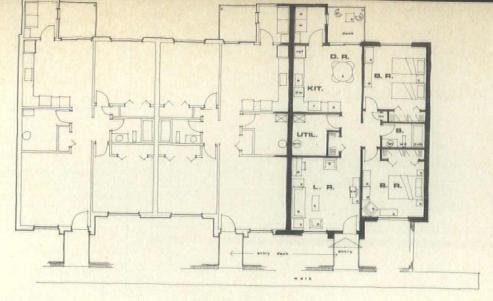
James B. Ferguson General Contracting Corp. of Ashland wa general contractor and handled stee erection, handrails, cabinets, caulking roofing, wall insulation and painting.

Subcontractors & Suppliers

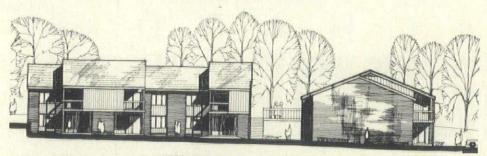
From Ashland were: R. S. Sheltor landscaping contractor; Haley Ready Mix Co., Inc., concrete supplier; Lewi Jennings, masonry contractor a stonework contractor; Haley-Durret mortar & paint supplier (Sampso Paints); Biltmore Steel, steel supplier Pete Puryear, ceramic tile; and Lenn D. Hardy, electrical contractor.

Richmond firms were: Easter Building Supply Co., masonry supplier Ruffin & Payne, Inc., millwork windows; R. A. Siewers, Inc., paneling Binswanger Glass Co., wood doors Pleasants Hardware, hardwar supplier: T. G. Garrett, gypsum boar contractor; Tile Town, resilient tile Floyd Lewis, plumbing contractor Howell's Heating & Air Conditioning heating/ventilating/air conditioning cor tractor; Atlantic Electrical Suppl Corp., lighting fixtures supplier General Electric Supply Co., electrica equipment supplier; and W. H. Stova & Co., Inc., skylights.

Others were: Raymond Lewis Hanover County, excavating; and Luc Quarries, Inc., Manakin-Sabot stonework supplier.



APARTMENT LAYOUT - Upper Floor



NORTH ELEVATION — Along Golf Course

IEW APARTMENT FACILITY HE METHODIST HOME IN ROANOKE

IRGINIA METHODIST HOMES, INC. DANOKE

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WRENCE E. PERRY & ASSOCIATES
nsulting Engineer
echanical/Electrical

CHARD L. WILLIAMS nsulting Engineer, Structural

ndscaping by THE OWNER

erior Design & Photography THE ARCHITECT

M. TOMLINSON, INC., General Contractor

THE METHODIST HOME in Roanoke, in an effort to accommodate the ever increasing demand for retirement housing, will provide additional units on a portion of land which is contiguous to but not functionally a part of the present site.

The proposed units will house retired residents who are fully ambulatory and self-sufficient. Aside from providing certain amenities consistent with housing for the aging, project development will be in keeping with the needs of conventional apartment dwellers.

Occupants of this apartment project will be eligible to utilize the medical facilities of the Roanoke Methodist home and may transfer their residence to the "Home" when their needs are best served by such relocation. The religious, dining and recreation activities of the "Home" will also be available to the apartment occupants.

The following performance goals were the basis for project development:

- -Compactness for convenience and economy;
- -Design and construction for maximum safety;
- —The effect of spaciousness and livability;
- —A high degree of privacy;

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The site as it relates to the surrounding community is ated in the near northwest section of Roanoke City. It is redered on the north by a golf course which is owned by the anoke Country Club. In addition to providing excellent en space amenities, the recreational benefits to retired roons are substantial. To the west across Old Country Club ad sits a stately dwelling done in the finest tradition of the glish Tudor style.

The contiguous relationship with the present "Home" pperty is to the south across Shady Lane Road. The eximity of the "Home" facilities appears ideal. The new artment facility enjoys enough separation to create the ling of independence from a terminal care facility, wever, it is sufficiently close by to assist the progressive eds of the aging resident.

he total enclosed area of the project is 13,100 square feet. elve apartments are provided, six in each of two identical ldings. Each apartment contains approximately 1,100 tare feet distributed between a living room, two bedrooms, h, kitchen/dining area, utility room, pantry and usual rage provisions. Either a covered deck or patio is attached each unit.

he structure is wood frame using brick veneer and wood ing and a Fiberglas shingle roof.

A unique feature of this two-story complex is the elimination of steps needed to reach any given apartment. The site has been carefully recontoured to minimize the grade differences between parking lot and entries. Strict attention has been given to the preservation of existing vegetation.

The amenities package provided for the occupants will include a complete kitchen, carpet throughout and year-round air conditioning.

Q. M. Tomlinson, Inc. of Roanoke was general contractor.

Subcontractors & Suppliers (Roanoke firms unless noted)

Joe Bandy & Son, Inc., excavating; S. R. Draper Paving Co., Inc., paving contractor; Concrete Ready Mixed Corp., concrete supplier; Thompson Masonry Contractors, Salem, masonry contractor; Valley Steel Corp., Salem, steel supplier; Timber Truss Housing Systems, Inc., Salem, structural wood; South Roanoke Lumber Co., millwork, wood doors & windows, Skyline Paint & Hardware, Inc., hardware supplier; James E. Lyle, Jr., plaster contractor; National Buying Service, resilient tile; Elmer M. Jones, Painting & Decorating, Salem, painting contractor; Dickerson-Trent, Inc., plumbing contractor; Bud Weaver Sheet Metal Co., heating/ventilating/air conditioning contractor; and Milton Electric Service Co., electrical contractor.

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BIRCHWOOD Apartments, Lynchburg, is considered one of the most attractive, low-income housing developments to come on the market to date. Developed by the Bush Organization of Norfolk, it is a part of the Lynchburg Redevelopment and Housing Authority's turnkey housing program.

Birchwood is only the second such development by the Lynchburg Redevelopment and Housing Authority, and it is the first time in more than sixteen years that Lynchburg has built additional low-income housing units to meet the needs of its citizens who could afford living otherwise not accommodations of this calibre. It has greatly improved the morale and living standards of low-income families and should be a trend-setter for other redevelopment and housing projects.

The complex is composed of one, two, three, four and five bedroom townhouses. The units are clustered within each building around entrance courts to create a sense of neighborhood. Composed of five identical buildings of twenty units each,

the townhouses (all with priventrances) are specifically related to site. Set among the mountains Virginia, the buildings are careful adapted to take full advantage of setting in both structure and design.

The appearance of Birchwood is major factor of its appeal in that typical, low-income housing facade been avoided by staggering townhouses and varying wall and repatterns. The structural system of developed to allow the buildings to the existing terrain with an average greange of 25 feet from one side of building to the other. The twenty-building concept was developed in attempt to minimize the amount of grading necessary and to retain as much the existing wooded area as possible.

The buildings are a combination crawl space with masonry retain walls and concrete slab on grade. Toof construction employs convention prefabricated wood roof trusses. Exterior walls are wood framed with the color scheme uses all nature.

IRCHWOOD APARTMENTS

NCHBURG

RUNDAGE-KROSKIN & ASSOCIATES, INC. - ARCHITECT

WMAN & ASSOCIATES, P.C. - Consulting Engineer, Mechanical/Electrical

ndscape Design & Photography by THE ARCHITECT

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PAGE TWENTY-THREE

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othtones to blend with the vironment.

The community-management-maintance building also adapts these same ilding materials to form a wellordinated community. This building uses the rental office for the relopment, a maintenance facility, ndromat and a large recreation om. An outdoor recreation area has en developed adjacent to the nmunity-management-maintenance liding, using the existing trees and pes to complement the facilities.

The cost of the completed Birchwood eject is \$2.5 million. Rents are based 25% of the adjusted family income, h maximum ceiling rents declining m \$125 for the five bedroom units.

Birchwood Apartments were financed the U.S. Department of Housing and ban Development. Creative instruction and Development reporation of Roanoke was the mary subcontractor for the Bush ganization and handled foundations, icrete work, reinforcing, carpentry th James W. Young, Rustburg), and et metal.

Subcontractors & Suppliers (Roanoke firms unless noted)

oe Bandy & Son, Inc., excavating; m. R. Yagle Landscaping Co., ding, etc., landscaping & dscaping contractor; Marvin V. mpleton & Sons, Inc., Lynchburg, ring contractor; Lynchburg Ready x Concrete Co., Lynchburg, concrete pplier; C. S. Dunford, Lovelace, wlin & Lovelace, J. Irven Davis, nes W. Stevens & Jennings Masonry, Inc., Roanoke, Gladys, Lynchburg

Madison Heights, masonry stractors; Lightweight Block Co., sonry supplier; Riverton Corp., erton, mortar; Fabricated Metals lustries, Inc., handrails; Boro Wood ducts, Bennettsville, S. C., cabinets; rval Taliaferro, Madison Heights, terproofing; and A. E. Mills Paint., Blacksburg, caulking & painting stractor (Sherwin-Williams paints).

also, Johns-Manville Sales Corp., anta, Ga., roof shingles; Taylor ulating Co., Inc., wall insulation; ar Hardware Corp., Taylorsville, ss., metal doors & frames; Boise scade, Greensboro, N. C., wood ors; Keller Building Products,

Greensboro, N. C., windows; Schlage Lock Co., Rocky Mount, N. C., hardware supplier; James E. Lyle, Jr., Robert Lovelace & Allen Cabell, Roanoke, Long Island, Va. & Madison Heights, plaster contractors & gypsum board contractors; Sylvester Yuille, Rustburg, ceramic tile; Noland Co., plumbing fixtures/lighting fixtures/

electrical equipment supplier; John J. Miller Plumbing & Heating, Inc., and James Lynch, Lynchburg, plumbing contractors; Lester's Electrical Service, Inc., and Samuel P. Ross, Jr., Lynchburg, electrical contractors; and John J. Miller Plumbing & Heating, Inc., ventilating/air conditioning contractor.

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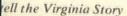
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THIS multipurpose addition to the Charles Barrett Elementary School in Alexandria was completed December 1976.

Program:

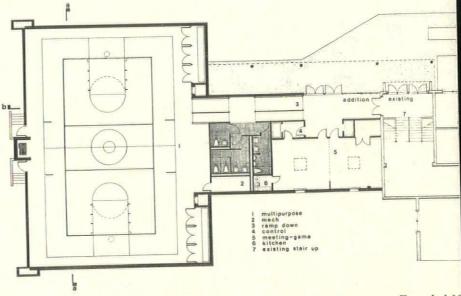
P. E. classes for the school's 285 pupils were conducted in the sloped-floor, proscenium stage auditorium. A phased upgrading of the school's

physical plant, including sitework, called for construction of a multipurpose space with two teaching stations sized for Junior High School basketball competition, and an auxiliary meeting/game room and toilets. The program stressed shared use of the facility with the neighboring community and a nights/summers

recreation program administered by t

Design Solution:

From the covered porch the pub gains direct entry into the circulati spine which begins at the school existing egress vestibule, by-passes the divisible meeting/game room, become a descending ramp with a mid-le



VIRGINIA RECORD

Founded 18

MULTIPURPOSE ADDITION

CHARLES BARRETT ELEMENTARY SCHOOL

ALEXANDRIA

DAVID R. ROSENTHAL ASSOCIATES - ARCHITECT BEN CALLOWAY JONES - PROJECT ARCHITECT

JOSEPH ASHKENAZY, Consulting Engineer, Mechanical

PETER BARNA, Consulting Engineer, Electrical

FORTUNE, DOWNEY & ELLIOTT, Consulting Engineer, Structural

HOLLAND ENGINEERING, Consulting Engineer, Civil

GEORGE COLLIER, Photography

CITY OF ALEXANDRIA PUBLIC SCHOOL BOARD, Owner

EUGENE THOMAS CONSTRUCTION CO., INC., General Contractor

pause for access to toilet rooms, terminating at the multipurpose space where storage walls with sloped, heavyduty, expanded metal roofs (for ventilation and return of stray balls) lank forced and return air ventilating towers. The building closure consists of an exterior skin of warm tan colored CMU, 2-inch cavity rigid thermal

insulation, and an interior skin of either regular or sound absorptive CMU left natural, painted, or given a glazed coating. In the multipurpose space a durable, low-maintenance, wood composition floor is used and natural daylight is admitted through impact-resistant translucent fiberglas panels with ventilating hoppers below. An

operable wall subdivides the space as required. Addition, 7798 S.F.; Covered porch, 912 S.F.

Site Description:

A 5-acre, roughly rectangular, site with street frontage on the long dimension, a 5% slope from the street to the rear, with the existing school occupying a middle two-fifths of the



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Phone 703/344-6601 711 Boxley Building ROANOKE, VIRGINIA 24010 Seven Plants Located on N. & W., S. C. L. street frontage. Included in the scope of work was the reorganization of all onsite parking at the school's west end, and recovery of the east end (formerly a patchwork of blacktop parking and foundations of former temporary buildings) for landscaped playing fields.

Project Cost:

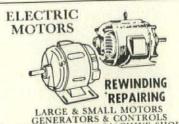
Multipurpose Addition: \$316,314 Sitework: \$89,287

Eugene Thomas Construction Co., Inc. of Alexandria was general contractor and handled excavating, sodding, seeding, etc., foundations, concrete work and carpentry.

Subcontractors & Suppliers (Alexandria firms unless noted)

Nursery Co., Chapel Valley Woodbine, Md., landscaping & landscaping contractor; National Asphalt Paving Corp., Merrifield, paying contractor; James Steel Fabricators, Inc., reinforcing, steel supplier/erection/joists/roof deck, miscellaneous metal & handrails; Virginia Concrete, Springfield, concrete supplier; Metropolitan Masonry Corp., Beltsville, Md., masonry contractor & precast stonework contractor; Betco Block & Products Co., Washington, D.C., masonry supplier & acoustical treatment (Soundblox); Materials, Vienna, mortar; and Arban Precast Stone, Inc., Triangle, precast stonework supplier.

Also, Arlington Woodworking & Lumber, McLean, millwork & wood doors; Bethesda Asphalt & Bituminous Co., Rockville, Md., waterproofing; Tonstad Caulking Co., Inc., caulking; Orndorff & Spaid, Inc., Beltsville, Md.,



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built-up roofing & sheet metal; USM Weathershield Systems, Stanhope, N.J., roof insulation; Davenport Insulation, Inc., Springfield, wall Woodbridge Woodbridge, glass contractor; Brunatti & Associates. Greenbelt, Md., metal doors & frames & windows; Custom Walls & Windows, Inc., Kensington, Md., window wall translucent; Fries, Beall & Sharp Co., Springfield, hardware supplier; Russell L. Barton Drywall & Plastering, Inc., Vienna, gypsum board contractor; and Standard Art Marble & Tile, Landover, Md., ceramic tile.

And, Nabco Glazed Products, Langley Park, Md., structural (glazed) ile; Allstate Building & Carpet Supplies, Inc., carpet; Central Atlantic Assoc., Baltimore, Md., special flooring Granwood; Bryan, Edmonston, Md., painting contractor; PPG Industries, Pittsburgh, Pa., supplier/manufacturer; Modern School Equipment, Inc., pecialties; Douglas Distributing, Washington, D. C., equipment; Hajoca Corp., Merrifield, plumbing fixture upplier; Metro Mechanical Assoc., plumbing contractor; Woodlawn Corp., Gaithersburg, Md., heating/ventilating/ ir conditioning contractor; Interstate Electrical, Merrifield, ixtures/electrical equipment supplier; Becker Electric Co., Inc., electrical ontractor; Standard Acoustics, Inc., Washington, D. C., operable partitions; outhern Floors & Acoustics, Inc., Merrifield, metal slat ceiling; and Architectural Components, permatone panels.

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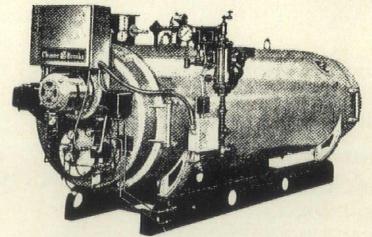
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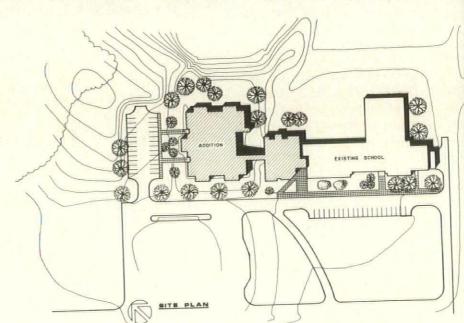
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TOTARO ELEMENTARY SCHOOL

LAWRENCEVILLE

WM. G. BRANDT, JR. & ASSOC., INC. Consulting Engineer, Mechanical/Electrical

DUNBAR, MILBY & WILLIAMS, Consulting Engineer, Structural

Interior Design by THE ARCHITECT

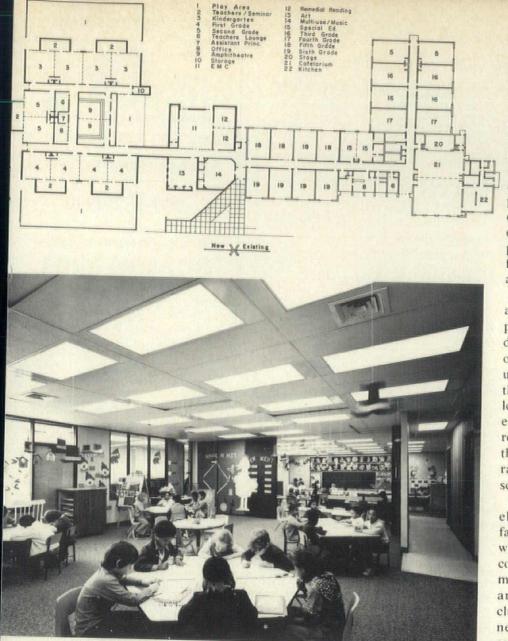
PAUL HUFFMAN, Photography

KENBRIDGE CONSTRUCTION CO., INC., General Contractor

PAGE THIRTY

VIRGINIA RECORD

Founded 1878



THE addition Totaro Elementary School in Brunswick County, the largest of three elementary school additions accomplished along with this project, is interesting in that the architect was involved in total comprehensive services including the initial programming and feasibility of the three additions. Informal meetings and conferences with the school administration, parents, teachers and principals were conducted resulting in a complete educational program which established learning methods, teacherpupil relationships, teaching tools and furnishings, flexibility, priorities and alternates.

Various site studies were explored on all three additions with Totaro presenting the most confining and difficult problems. The site restrictions of the property and an effort not to use up the existing play fields to the rear of the school directed the addition to be located on a small hill to the west of the existing school. To accomplish the resulting change in floor levels without the expense of an elevator, an on-grade ramp was utilized to correct the existing school with the new addition.

The new addition, housing the lower elementary grades and support facilities, is a major classroom addition which embodies many contemporary concepts. A new library, amphitheater, music room, art room, and a special area for remedial programs are clustered at the juncture of the old and new buildings, thus forming a centralized nucleus of special facilities



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hich are convenient to the whole uilding. A main entrance at this point is increases their accessibility to the ublic and other schools in the county estem.

Connected to this area by means of ne ramp is a new classroom wing that light be described as a "modified open lan," with pairs of classrooms ibdivided by folding partitions to low either separate classrooms or am teaching. A wide span roof ructure with demountable classroom artitions will allow flexibility to spond to future program changes ith relative ease. Teachers workrooms e provided for each pair of classrooms facilitate team teaching and to allow minars with small groups of students individuals. Located in the center of e addition, surrounded by the assrooms, is a flexible multi-use nphitheatre that can accommodate rge or small group activities. nmediately adjacent

amphitheatre is an outside, covered play area for use by the pupils in inclement weather.

Owner: Brunswick County School Board Building Area: 23,700 square feet Construction Bid: \$793,3% — July 1975

Cost per square foot: \$33. Services provided: Full architectural services

Kenbridge Construction Co., Inc., of Kenbridge, was general contractor.

Subcontractors & Suppliers
From Kenbridge were: L. H.
Wingfield Roofing and Metal Co.,
built-up roof & sheet metal; and
Kenbridge Mfg. & Supply Co., carpet.

Richmond firms were: S & W Steel Co., Inc., steel joists, steel roof deck, other roof deck; E. S. Chappell & Son, Inc., caulking; Ar-Wall, Inc., metal siding; C. B. Smith Co., acoustical treatment & resilient tile; John H. Hampshire, Inc., demountable partitions; and Terminix Engineers, termite treatment.

Others were: Solomon & Barker, South Hill, grading, sodding, seeding, etc.; Short Paving Co., Inc., Petersburg, asphalt paving contractor; Richard A. Holmes, Meredithville, masonry contractor; Virginia Auto Glass Co., Chase City, glass, glazing contractor & windows; Virginia Plastering Co., Fredericksburg, steel studs & drywall & gypsum board contractor; and Ward Tile & Terrazzo, Inc., Raleigh, N. C., ceramic tile.

And, Chapman & Martin, Inc., Farmville, painting contractor & wall covering; C. C. Powell & Son, Inc., Victoria, plumbing contractor; Daniel Brothers, Lawrenceville, heating/ventilating/air conditioning/electrical contractor; Lynchburg Steel & Specialty Co., Monroe, operable walls; and Greensteel, Inc., Lorton, chalk & tackboards.

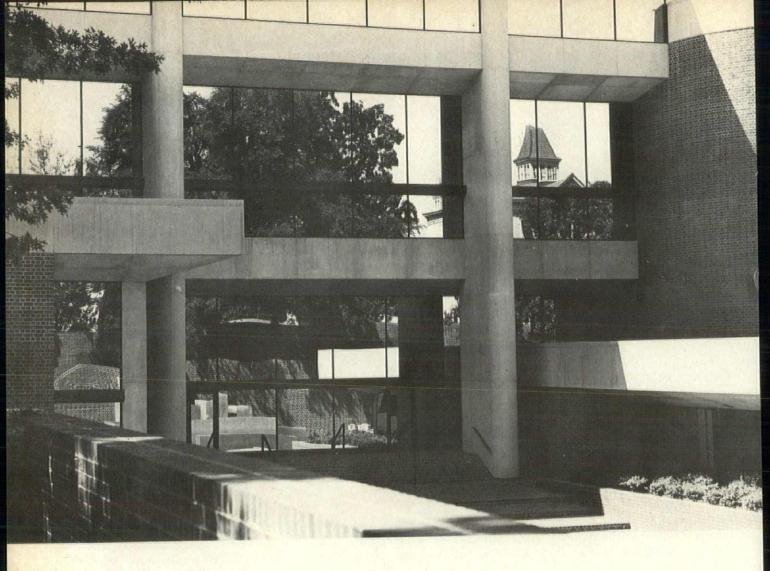




tell the Virginia Story

FEBRUARY 1978

PAGE THIRTY-THREE



NORTH WING ADDITION VIRGINIA MUSEUM OF FINE ARTS

RICHMOND
HARDWICKE ASSOCIATES - ARCHITECT

LAWRENCE HALPRIN ASSOCIATES - LANDSCAPE ARCHITECT

ROBERT S. SPRATLEY & ASSOC., Consulting Engineer, Mechanical/Electrical

HARRIS, NORMAN, GILES & WALKER, Consulting Engineer, Structural

BOLT BERANEK & NEWMAN, INC., Acoustic Consultants

JOHN G. KOLBE CO., Kitchen Consultant

ISD INCORPORATED, Interior Design

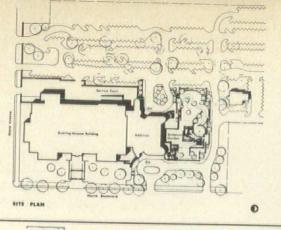
Photography by THE ARCHITECT unless noted

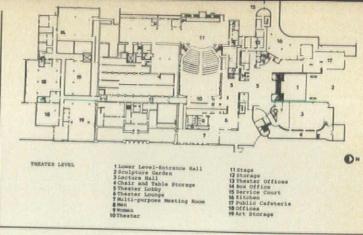
HYMAN, DOYLE & RUSSELL, INC., General Contractor

PAGE THIRTY-FOUR

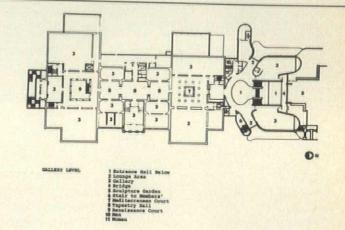
VIRGINIA RECORD

Founded 187









in February 1973.



THE NEW North Wing of the Virginia Museum opened to the public January 20, 1976 marking the completion of a two-part, \$10 million building program that has been 10 years in progress.



The curved forms of the North Wing respond to the moving paths of a visitor as he approaches the Museum on curving drives from the Boulevard or from the Motor Park within the block. Walled and screened from view the sculpture garden offers a variety of settings for sculpture and reflecting pools and was designed to take advantage of the finest of the great old trees in the area. The new design of the North Wing is planned to relate building and garden as intimately as possible. All the major spaces of the building have views of the garden, and the visitor can go directly into the garden from each of the three main

construction on the North Wing began



levels of the building.

Ample canopies at both entrances shelter passengers getting in or out of cars or buses. The visitor enters a relatively low and narrow space which broadens as he progresses into the building until he moves beyond the balcony of the gallery level above and experiences the full height and depth of the new entrance hall. The orientation (Continued on page 46)

Virginia Museum Photo

In 1962, facing the need for additional space, the Museum began planning which called for the addition of two wings to the existing building. (In 1955, one wing had already been added to the original building which opened in January 1936.) Between 1962 and 1964 the Museum's immediate and long range building needs were studied and a comprehensive plan developed for the expansion of the headquarters building in Richmond. The plan divided new construction into two proposed additions; the South Wing and the North Wing. Both wings included additional galleries, but below the Gallery Floor the South Wing was designed to accommodate the more private "backstage" work areas which were badly needed; while the North Wing was to become the focus of the new public areas of the Museum. With the necessary money appropriated in 1972 by the General Assembly,

tell the Virginia Story



THE Tidewater, Virginia headquarters building for Family Service/ Travelers' Aid was designed to serve as operation headquarters for the private, community funded, social services agency. It was planned to serve efficiently for administrative functions but also to provide the environment needed for the reception of clients and

delivery of social services to them Constructed in the redeveloped eas Ghent area of Norfolk, the buildin shares a block with two other publi service agencies, forming a transitiona use between the retail-commercial are on the north and the educational an residential use occupancies to the sout and west.

The materials and colors of the building were selected to coordinate with the theme colors and material which were selected by the Norfol Redevelopment and Housing Authority for use in the Ghent Square development area. While the architectural designs and styles of the individual buildings vary, the entire Ghent Square area is intended to form a cohesive urban image.

Although the construction budge was limited, as it is for all public funded agencies, care was taken avoid a terse atmosphere in the public spaces. The lobby was designed with a open view to a landscaped fore-cou and on the wall a mural painted by the well known Virginia artist A. Jackson, helped create a humanist atmosphere. The building is designed serve its occupants and not intimidate them. It is fully accessib for use by physically handicapped



nployees and clients, although the ilding was planned before the quirement was codified in Virginia. Its requirement was inherent in the nsiderate program provided by the ent.

Careful attention was given to the ection of the floor and wall surfaces, r good appearance and easy aintenance and to making the walls of coffices and interview rooms resistive the transmission of sound. The ndows to the reception room at the 11th are deeply recessed so that they fully shaded from the summer suntenance building was designed to be heated do cooled with energy efficient thronic heat pumps. The fenestration the offices was minimized and the enings glazed with bronze tinted, ulated glass to conserve energy.

ncluded in the architectural design is ystem for the storing and control of indential case records and adoption beedings. The record storage rooms constructed of reinforced concrete ha four-hour fire resistive rating.

Galloway Corporation, of Virginia

ach, was general contractor and ndled foundations, concrete work, nforcing, steel roof deck, carpentry,

structural wood, paneling, cabinets and caulking.

Subcontractors & Suppliers (Norfolk firms unless noted)

Rogers Concrete Construction, excavating; Winn Nursery, Inc., sodding, seeding, etc., landscaping, landscaping contractor; Asphalt Roads & Materials Co., Inc., Va. Beach, paving contractor; Sadler Materials Corp., Va. Beach, concrete supplier; J.T. Eley, Jr., Portsmouth, masonry contractor/supplier, mortar & stonework contractor; Chesapeake Steel, Inc., stonework supplier, steel supplier/erection/joists/grating, laneous metal & handrails; Kempsville Cabinet Shop, Va. Beach, millwork; Roof Engineering Corp., waterproofing, builtup roof, other roofing, roof insulation & sheet metal; and Manson & Utley, Inc., wall insulation.

Also, Walker & Laberge Co., Inc., glass, glazing contractor, windows, window wall & storefront; Door Engineering Corp., metal doors & frames, wood doors & hardware supplier: Martin Mathis Co., Inc., Va. Beach, plaster/gypsum board/painting contractor, special wall finish & wall covering; Grover L. White, Inc., ceramic tile, terrazzo & special flooring; Craftmaster Co., acoustical treatment; John H. Hampshire, Inc., resilient tile; Cherry Rug Co., Portsmouth, carpet; Glidden Products. paint supplier/manufacturer; Dover Elevator Co., elevators; Jocker, plumbing fixtures; Aircon, Ltd., plumbing/heating/ventilating/air conditioning contractor; Graybar Electric Co., Inc., lighting fixtures/electrical equipment supplier; and Beach Electric Service, Va. Beach, electrical contractor.



FAMILY SERVICE/TRAVELERS' AID HEADQUARTERS BUILDING

NORFOLK

LEAVITT ASSOCIATES - ARCHITECT

CHANDLER & GIBSON, Consulting Engineer, Mechanical/Electrical
SHELDON J. LEAVITT, Consulting Engineer, Structural
KEVIN H. STRAUSS of PHOTOGRAPHY, ETC., Photography
GALLOWAY CORPORATION, General Contractor



UNITED WAY FAMILY CENTER

VIRGINIA BEACH

OLIVER, SMITH & COOKE, LTD., AIA - ARCHITECT

E. H. BOWMAN, JR. Consulting Engineer, Mechanical/Electrical

FRAIOLI-BLUM-YESSELMAN ASSOC., INC. Consulting Engineer, Structural

BALDWIN & GREGG Consulting Engineer, Civil

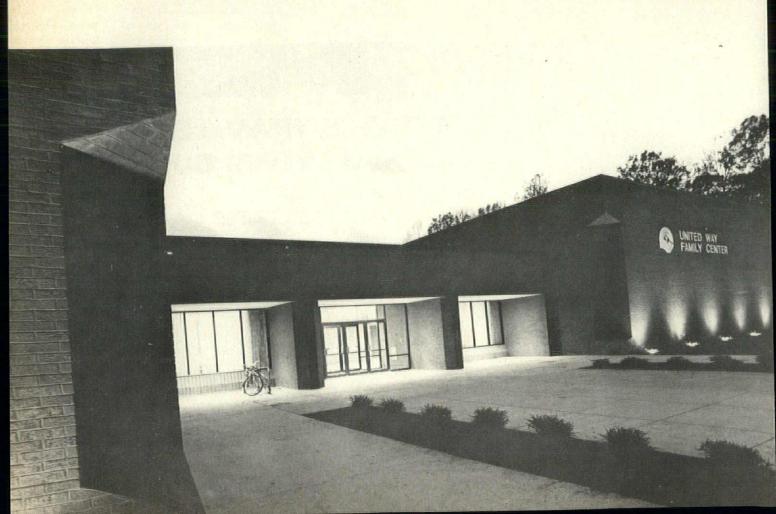
FRANK MORGAN, Photography

GALLOWAY CORPORATION
General Contractor

THE CONCEPT of a centrally-located facility to serve the citizens of Virginia Beach in the areas of health, social assistance and recreation was born in 1969. Through intervening years until construction in 1975-1976, the effort of many city and United Way officials, private citizens, are civic groups helped solidify the requirements for this facility. The United Way Family Center opened in September 197 and now provides family counseling, family life education assistance to travelers, life saving/swimming instruction physical fitness and special skills program, citizenshy character building programs, a community blood center are programs for the elderly.

By combining all these services under one roof, the cent has been able to operate very economically and efficiently, y because of the central location, it remains easily accessible all Virginia Beach residents. The site is five acres of woode property near the Norfolk-Virginia Beach Expressway. To grounds include ample parking, handicapped acces throughout, and a wooden foot bridge over an existing natural creek.

The structure is approximately 42,000 square feet in size Brick veneer wall surfaces were utilized throughout to



terior and for certain accent walls on the interior. Bevelling the brick at exterior columns, corners and windows ovides a unique accent and gives the building a sculptured pearance.

A double-tee roof system was incorporated throughout the ilding, this structure being exposed in gymnasium and imming pool areas. Extra thick walls were used to insure ective sound insulation between major areas, and multipose rooms employ expandable walls to define changing ace needs. All meeting rooms and most administrative as were designed to adapt to shifting agency requirements, d room for expansion was a prime planning consideration. Galleries overlooking one of the gymnasiums and the imming pool permit a bird's eye view of sports events for th spectators and coaches. Other special features include all kitchen areas in meeting rooms, a "radio shack" for m operators in the event of emergency or disaster, and ensive clean-up facilities for the craft rooms.

Participating organizations are the American Red Crosslewater Chapter, Big Brothers/Big Sisters of Tidewater, ys Club of Virginia, Girls Club of Virginia, Girl Scouts uncil of Greater Tidewater, Family Service/Travelers Aid, tired Senior Volunteer Program (RSVP), and the YMCA. Galloway Corporation of Virginia Beach was general

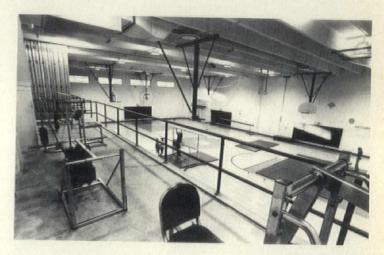
tractor.

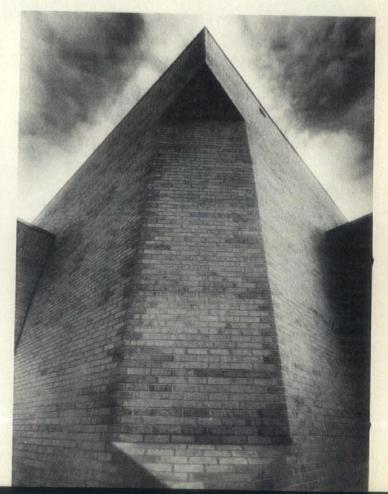
Subcontractors & Suppliers (Virginia Beach firms unless noted)

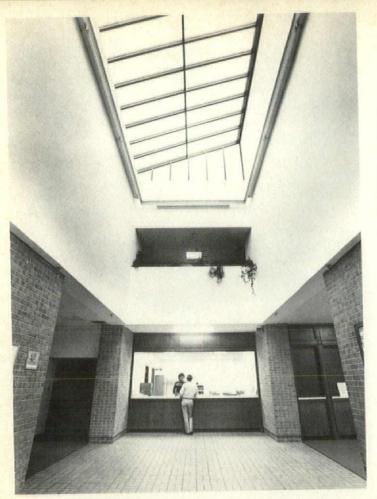
Ferrell Brothers, Inc., excavating, topsoiling, seeding, etc., paving contractor; Ford Pile Foundations, Inc., piling; kin Exterminating Co., Inc., Norfolk, soil poisoning; ller Materials Corp., concrete contractor/supplier & ndation insulation; Hall-Hodges Co., Inc., Norfolk, nforcing; Concrete Structures, Inc., Richmond, precast crete; J. T. Eley, Jr., Portsmouth, masonry tractor/supplier, mortar & wall insulation; Intercell lustries, Inc., Durham, N. C., roof deck; Chesapeake Steel., Norfolk, miscellaneous metal & handrails; Premier llwork & Lumber Co., Inc., carpentry, millwork & wood ors; and American Sheet Metal, Inc., Norfolk, built-up f, roof insulation & sheet metal.

lso, Door Engineering Corp., Norfolk, metal doors & mes & folding doors & hardware supplier, toilet essories & projection screen, directory & curtain track; lker & Laberge Co., Inc., Norfolk, windows; Martin this Co., Inc., stucco contractor & gypsum board tractor; Grover L. White, Inc., Norfolk, ceramic tile; W. Brown, acoustical treatment; Jayen Tile Corp., Norfolk, lient tile; E. Caligari & Son, Inc., Norfolk, carpet, nting contractor/supplier, special coating & sprayed ustical material; Seaboard Building Supply, metal toilet titions; Master Pools by Meredith Swimming Pool erprises, Inc., swimming pool; Aircon, Ltd., Norfolk, mbing contractor; Nelson & Smith Mechanical, Inc., esapeake, heating/ventilating/air conditioning contractor; ich Electric Service, lighting fixtures/electrical equipment plier & electrical contractor; Lyon Metal Products, Inc., tsmouth, lockers and benches; Warner-Moore & Co., .. Norfolk, gymnasium backstop & wainscot; and F. B. rrington & Assoc., Norfolk, kitchen unit.











CHESAPEAKE PUBLIC HEALTH CENTER CHESAPEAKE OLIVER, SMITH & COOKE, LTD., AIA - ARCHITECT

BOWMAN & ASSOCIATES, Consulting Engineer, Mechanical/Electrical

FRAIOLI-BLUM-YESSELMAN, Consulting Engineer, Structural

BALDWIN & GREGG, Consulting Engineer, Civil

FRANK MORGAN, Photography

W. B. MEREDITH, II, INC., General Contractor

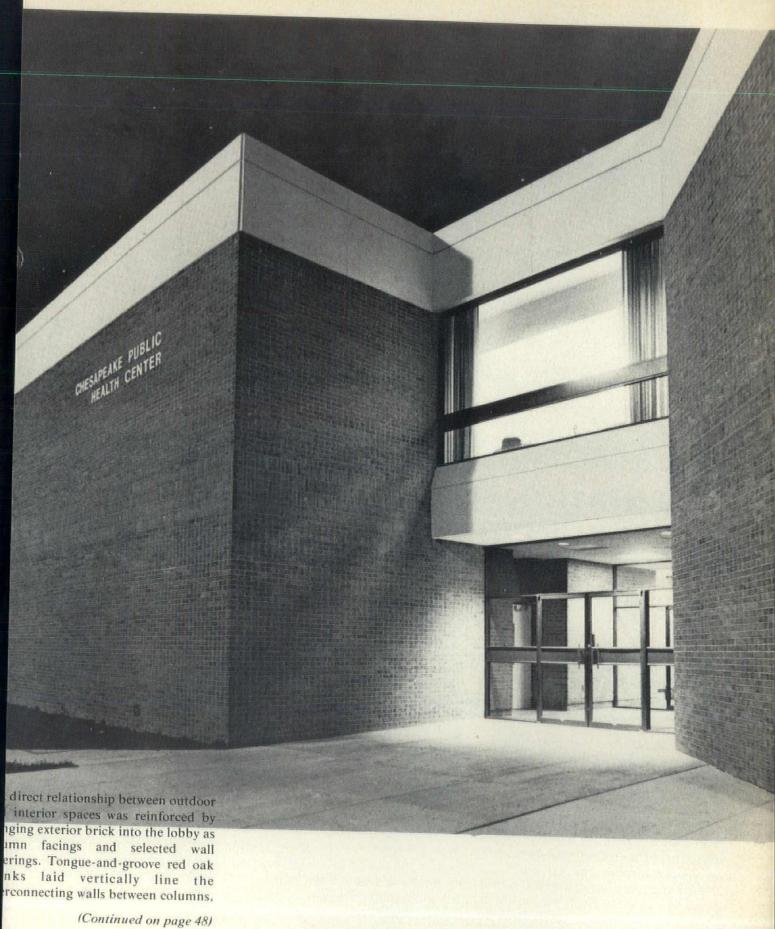
THE Chesapeake Public Health building is located in the new city medical complex near a primary traffic artery in this fast-growing but widespread municipality.

Situated on a total site area of 3.17 acres, the two-story building encompasses over 28,800 square feet of

space. Since it is in such close proximity to Chesapeake General Hospital, design compatibility had a high priority in the planning process. This was achieved through a sensitive application of similar materials and a careful massing of the building itself. In addition, proper site orientation was necessary so that pedestrian accessibility to the

existing hospital and to future related facilities would be assured.

Structural materials consist primare of steel framing, brick veneer, a precast concrete panels around parapet, window sills and entry cano. The roof system is ribbed steel de heavily insulated, with a monolity elastomeric surfacing material.





OFFICE BUILDING

RICHMOND

HARDWICKE ASSOCIATES, INC. - ARCHITECT

WILSON-MORETH PARTNERSHIP - LANDSCAPE ARCHITECT
HARRIS, NORMAN, GILES & WALKER, Consulting Engineer, Structural
Photography by THE ARCHITECT
THE WORLEY CORPORATION, General Contractor

PRESENTED with the challenge to transform a brick Colonial rancher into a contemporary office space the architect set out to establish a clean, bold statement for the client. Sitting low off a major roadway (West Patterson Avenue) the house posed site problems of access and visibility as well as a generally poor appearance.

To achieve greater visual impact from the road the decision was made to create a high center of interest by means of a protruding clerestory over the reception area. Raising the existing contours with fill has provided visitors direct side access to the building from a parking area level with the entrance grade, yet maintaining a natural look out front.

A new floor scheme organized the available space functionally by zoning private and general offices on the upper level with file and storage areas on the lower. Additional facilities for the office include a walk-out deck linked visually with a landscaped stream located in the

back. New lighting, mechanical kitchen equipment were added to renovation.

The Worley Corporation of Richm was general contractor.

Subcontractors & Suppliers (All Richmond firms)

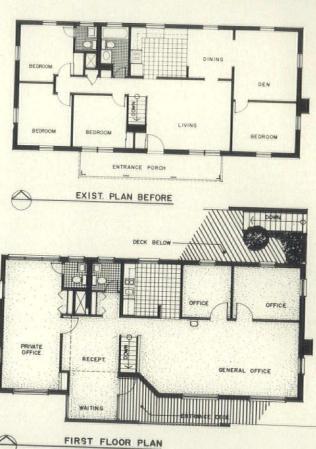
J. E. Liesfeld Contractor, I excavating, sodding, seeding, cherotuck Nurseries, landscap contractor; Ford Paving Co., I paving contractor; Capital Mass Corp., masonry contractor; Kitc Distributors of Va., Inc., cabinet resilient tile; Fralin's Waterproof waterproofing; R. J. Binns Roof

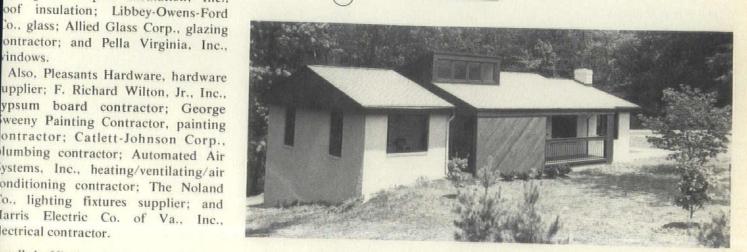
PAGE FORTY-TWO

VIRGINIA RECORD

Founded 1







o tell the Virginia Story

lectrical contractor.

vindows.

oofing; Davenport Insulation, Inc.,

Also, Pleasants Hardware, hardware upplier; F. Richard Wilton, Jr., Inc., ypsum board contractor; George weeny Painting Contractor, painting ontractor; Catlett-Johnson Corp., lumbing contractor; Automated Air ystems, Inc., heating/ventilating/air onditioning contractor; The Noland o., lighting fixtures supplier; and Iarris Electric Co. of Va., Inc.,

FEBRUARY 1978

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STATE BANK OF REMINGTON

REMINGTON
STAINBACK & SCRIBNER - ARCHITECT/ENGINEER

DENWOOD MILBY
Consulting Engineer, Structural

COLEMAN MADDOX
Consulting Engineer, Mechanical

JOSEPH GARLAND Photography

JOHN M. WATSON, INC. General Contractor

WHEN THE State Bank of Remington decided nearly eighteen years ago to build a main office for their rapidly growing business the board of directors knew it was important to locate this new complex in a way that would enhance their proud image of a rural farming community bank.



Founded 187

First the board decided to locate in the middle of a long stablished residential neighborhood of Remington, Virginia is an ideal site and secondly to turn to the architectural firm of Stainback & Scribner who have become specialists in this phase of design and construction.

To these architects the program was an exciting challenge: o locate within this small site a complex large enough to provide expected full banking services for an active and proud community while retaining a design scale and unity hat would be harmonious with the surrounding architecture.

The results were so successful and resources grew so rapidly hat a little over a year ago the board of directors was forced o double its present facilities for which it was only natural to eturn to the same architectural firm with their new program. This program still had to fit within the original limited site, ontinuing to maintain a low residential profile.

This time the architect had to draw upon in-house tructural and mechanical engineering advice before the first ketches could be developed. By maneuvering an ingenious nechanical system around a wood structural frame it was ossible to provide a supplement to the original air onditioning system while sacrificing only a minimum of aluable floor space in the new design. An original false himney was converted to a fully working fireplace to the elight of staff and customers alike.

The newly created board room, service kitchen and nlarged bookkeeping department were each tastefully inished along with the complete refinishing of the rest of the acility. Allowing existing perimeter garden walls and verhanging trees not to be disturbed while providing new rive-up driveways has been very successful. In addition, arefully selected planting has been strategically located.

A modified lobby entrance, improved tellers booths and ewly provided two-lane drive-up service all treated in a esidential scale have been warmly received by the ommunity. This acceptance can be considered largely esponsible for the new business growth.

John M. Watson, Inc. of Culpeper was general contractor nd handled excavating, electrical and plumbing.

Subcontractors & Suppliers

American Furniture & Fixture Co., Inc., Richmond, nterior decoration; Dodson Brothers Exterminating Co., nc., Culpeper, soil poisoning; Rogers Masonry, Inc., Drange, masonry; Arlington Iron Works, Inc., Manassas, niscellaneous metals & reinforcing; R. O. Hogan, Inc., Varrenton, waterproofing, dampproofing, roofing & sheet netal; Superior Drywall, Midland, gypsum board contractor; Davenport Insulation, Inc., Springfield, roof & wall nsulation; E. S. Chappell & Son, Inc., Richmond, caulking; harlottesville Glass & Mirror Corp. Charlottesville, glazing ontractor; R. C. Lee Carpet & Tile, Inc., Fredericksburg, eramic tile; Manson & Utley, Inc., Charlottesville, resilient le flooring & acoustical ceilings; Miller Manufacturing Co., hc., Richmond, millwork; Better Living Inc., Charlottesville, ainting contractor & wall covering; Shone Building roducts, Silver Spring, Md., toilet stall partitions; and isher & Martin, Inc., Charlottesville, heating/ventilating/air onditioning contractor.







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NORTH WING ADDITION VIRGINIA MUSEUM

(From page 35)

theatre and its lounge open into the entrance hall west of the stairway, and a balcony overlooking the new auditorium/lecture hall is entered on the east side. The theatre lobby extends into the new wing and serves also as lobby and lounge for the new lecture hall and for the new public cafeteria.

A gallery-going visitor arrives by means of the Grand Stairway onto a curving balcony overlooking the floor of the entrance hall below. Three large galleries open onto this balcony, separated by two small lounge areas. The two principal galleries are connected by a bridge from which the visitor can view the sculpture garden below, and to the other side, the transition gallery with the statue of Caligula, the Mediterranean Court and Tapestry Halls beyond.

The new Members' Suite, which is directly above the galleries, offers an excellent view of the garden and like the Members' Dining Room opens onto a small outdoor roof terrace.

The new wing is the culmination of an extensive expansion and total reorganization of the nation's first state-supported art museum.

Cost of construction not including furnishings was \$5.2 million.

Hyman, Doyle & Russell, Inc. of Richmond was general contractor and

Betsy Ross Realty Inc.

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ndled foundations, concrete work, estressed concrete, masonry work, ortar, carpentry and structural wood.

Subcontractors & Suppliers (Richmond firms unless noted)

A. Walder, Inc., excavating; Brothers Nurseries, dding, seeding, etc. and landscaping ntractor; Warren Bros. Co., paving ntractor; Montague-Betts Co., Inc., nchburg, reinforcing, steel supplier/ sts/roof deck & miscellaneous Old Virginia Inc., Salem, masonry super; Moore Crane Service, limene erection; Empire Granite rp., stonework contractor; Harding Cogswell, Indiana, stonework pplier; Oliva & Lazzuri, Inc., marble rk, ceramic & quarry tile & veneer ne; and W. O. Grubb Steel Erection, .. steel erection.

Also, Miller Mfg. Co., Inc., millwork, pinets & wood doors; W. R. Inc., waterproofing: chmond Primoid, Inc., dampofing; N. W. Martin & Bros., ., built-up roof & installation of roof ulation; Marsteller Corp., Roanoke, stomeric roofing & special stomeric flooring; Walker & Laberge Richmond, glass, glazing contractor, minum windows & Kawneer refront; Superior Fireproof Door , metal doors & frames; Pleasants rdware, hardware supplier; and F. hard Wilton, Jr., Inc., plaster tractor & gypsum board contractor. Others were: John H. Hampshire, ., acoustical treatment & resilient ; W. W. Nash & Sons, Inc., painting tractor, special wall finish, wall ering & sprayed fireproofing; Pratt Lambert, Inc., paint manufacturer; . Archer Co., Inc., coiling grilles & ractable partitions; Key Fixture & uipment, Inc., Lynchburg, food vice equipment; W. W. Moore & ns, elevators; Worsham Sprinkler , Inc., sprinkler contractor; William White, Jr., Inc., plumbing/

tting/ventilating/air conditioning tractor; E. C. Ernst Inc., electricontractor; Carthage Marble p. and Buckingham-Virginia Slate p., veneer stone suppliers; and her Irrigation Corp., irrigation em.

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(From page 4

and coat/magazine racks wer constructed of red oak paneling.

To further enhance an outdomed feeling, and to increase the apparestize of the lobby, a full two-story operate is capped by full length clerestomed windows and accompanying skyligglass. A plant-lined walkway at each of the second floor level opens this dramatic space.

A full kitchen is provided in the fit floor assembly area for purposes demonstrating domestic hygiene at food preparation to the public. The area may be closed off from the assembly area by accordianty folding doors. Another full kitchen located in the second floor staff loung Additional areas include conferent rooms, administrative office medical/dental examination rooms a library.

A liberal use of carpet was the rest of a need for extensive sound insulati and the desire for a relaxed and no institutional atmosphere. Vinyl w fabric was specified in most areas for maintenance characteristics.

The building interior complies we the Commonwealth of Virginia desistandards for the handicapped, addition, 15 handicapped parki spaces are located on the north side the building, providing easy accessified without having to cross any driveward or curbs. Ample pick-up and loadi space was provided at the magentrance by creating a recess in the culine which does not impede other trafflow.

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The city was emphatic about selective e clearing. The architects, with the epartment of Parks and Recreation, ected the trees to be saved (on an fividual basis) along the perimeters of clearing limits. In general, this was pical of the city's interest in the tails of the project; the finest possible tility within a reasonable budget was determining factor in each major cision.

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